

IV. *Note on Bonelli's "Tableau Synoptique."* By H. E. ANDREWES.

[Read March 5, 1919.]

IN 1810 Bonelli published in the "Mémoires" of the Académie Impériale de Sciences de Turin the first part of his "Observations Entomologiques," the second part following in 1813. Both parts referred exclusively to the family of the Carabidae, and various new genera and species were described. In addition there was a large "Tableau Synoptique," which differentiated the then known genera, and included a number of new ones. Among the latter are many common European genera, and Bonelli has always been credited with the authorship of such as appeared for the first time in the "Tableau."

Desiring to consult this work, I examined at the Natural History Museum the volumes of "Mémoires" of the Turin Academy containing the two parts of the "Observations Entomologiques," but to my surprise was unable to find it. Mr. C. Davies Sherborn of the "Index Animalium," whom I consulted, advised me to examine the other copies of the "Mémoires" to be found in London, viz. a copy at the British Museum (Bloomsbury), and copies in the Libraries of the Royal and Linnaean Societies. The latter I was enabled to see through the courtesy of the respective Librarians, and the former I saw in the Reading Room. None of them contained any trace of the "Tableau." Mr. Sherborn was then kind enough to write to Prof. C. F. Parona of the Royal Academy of Turin, who wrote in reply that the volumes in the Library of the Academy were also without any copy, but that Bonelli's own copy of the "Tableau" was in the Royal Zoological Museum. Count Salvadori, the Director of the Museum, has had the goodness to have a MS. copy prepared, together with a copy of the plate, and its accompanying explanation. These he has sent to Mr. Sherborn, and they are now preserved in vol. xx of the "Mémoires" of the Turin Academy (containing the second part of Bonelli's paper) in the Library of the British Museum (Nat. Hist.) for future reference. We are very much indebted both to

Prof. Parona and Count Salvadori for their very kind help.

On examining various works of reference, I find that E. F. Germar reviewed both parts of Bonelli's paper in the *Magazin der Entomologie*. In vol. ii, 1817, p. 302, he mentions all the genera, and evidently had before him a copy of the "Tableau." W. Engelmann in *Bibliotheca Historico-naturalis*, i, 1846, p. 524, mentions Bonelli's work in two parts: "avec un grand tableau et 4 pl." This, however, refers to a separate, and J. V. Carus and W. Engelmann in *Bibliotheca Zoologica* 1861, p. 479, which refers to the original volume of "Mémoires," mention Bonelli's paper only, without any indication of its being accompanied by "Tableau" or plates. H. A. Hagen in *Bibliotheca Entomologica* 1862, gives the reference to Bonelli's papers, and adds, "Ich habe die von Engelmann p. 524 citirten 4 Tafeln u. 1 Tableau nicht gesehen."

From the above it seems clear that the "Tableau Synoptique" was never published, but that copies of it were distributed by Bonelli along with the separates of his paper in or about 1813. I have not myself seen an original separate, but, in addition to the copy in the Museum at Turin, there is one in the Library of Mr. T. G. Sloane, in Australia, and no doubt other copies are in existence in Continental Libraries. The four plates mentioned above do not appear to have had any existence, but one plate was produced, though not published, and copies of this were probably distributed by Bonelli along with the "Tableau."

On the "Tableau" itself—or rather the MS. copy—I have but little comment to make. Bonelli puts a star against certain genera, and explains in a note that each of these is "Genus novum aut cujus characteres elaborantur." There is no star, however, against either *Agonum* or *Anchomenus*, which have hitherto been attributed to Bonelli (in *Tabl. Synopt.*) and to which I can find no earlier reference: There is also a blank space for an unnamed genus formed for *Carabus impressus*, F.: this would, I suppose, be *Diplochila*, Brullé (= *Rhembus*, Dej., nom. praeocc.), and why Bonelli failed to give it a name I do not know. The genus *Taphria* is attributed to Bonelli both by Agassiz and by Gemminger and Harold (Munich Catalogue), but these attributions are erroneous, the actual author being Dejean (*Spec. Gen.* iii, 1828, p. 84).

I give below a list of the new genera characterised in the "Tableau," and the names of the authors to whom I think they should in future be attributed. I do not profess, however, to have made an exhaustive search through the literature of the period, and there may prove to be earlier authors for some of them than those I have quoted. Some of these genera are now only synonyms, but the great majority are still in general use. One genus only disappears, viz. *Demetrias*, which should be replaced by *Risophilus*, Leach ("Brewster's Edinburgh Encyclopedia," ix, part 1, 1815, Entomology, p. 81), a genus formed expressly for *Carabus atricapillus*, L. The genus *Laemostenus* (*Laemostenes*) was quite supplanted by Dejean's *Pristonychus* (Spec. Gen. iii, 1828, p. 43), and I do not at present know of an earlier reference than the one I have given.

I am very much indebted to Mr. C. Davies Sherborn for the interest he has taken in this inquiry, and take this opportunity of thanking him for his assistance.

The genera in question are as under: I give them in alphabetical order.

- Abax*, Stephens, Ill. Brit. Ent. i, 1827, 67 and 124.
- Agonum*, Stephens, l.c., 85 and 182.
- Amara*, Stephens, l.c., 67 and 126.
- Anchomenus*, Stephens, l.c., 67 and 81.
- Aptinus*, Latr. and Dejean, Hist. Nat. and Iconogr. des Col. d'Europe, 1822, 97.
- Blethisa*, Dejean, Spec. Gen. des Col. ii, 1826, 265.
- Calathus*, Stephens, l.c., 67 and 97.
- Callistus*, Dejean, l.c., ii, 1826, 295.
- Cephalotes*, Dejean, l.c., iii, 1828, 426.
- Chlaenius*, Dejean, l.c., ii, 1826, 297.
- Demetrias*, Latr. and Dej., l.c., 169.
- Dinodes*, Dejean, l.c., ii, 1826, 371.
- Ditomus*, Dejean, l.c., i, 1825, 437.
- Dolichus*, Dejean, l.c., iii, 1828, 36.
- Dromius*, Latr. and Dejean, l.c., 175.
- Dyschirius*, Stephens, l.c., 37 and 40.
- Epomis*, Dejean, l.c., ii, 1826, 368.
- Laemostenus* (*Laemostenes*), Schaufuss, Mon. Bearb. der Sphodr. Sitzungsab. Ges. Isis, 1864, 121.
- Lamprias*, Dejean, l.c., i, 1825, 253.
- Melanius*, Dejean, l.c., iii, 1828, 204.
- Molops*, Dejean, l.c., iii, 1828, 205.

- Oodes*, Dejean, *l.c.*, ii, 1826, 374.
Pelor, Dejean, *l.c.*, iii, 1828, 437.
Percus, Dejean, *l.c.*, iii, 1828, 205.
Platynus, Stephens, *l.c.*, 67 and 83.
Platysma, Stephens, *l.c.*, 67 and 124.
Poecilus, Stephens, *l.c.*, 67 and 108.
Polystichus, Latr. and Dejean, *l.c.*, 123.
Pterostichus, Stephens, *l.c.*, 67 and 120.

NOTE.—I have just received a letter (June, 1919) from Mr. T. G. Sloane. He tells me that his copy of the "Observations Entomologiques" (with the Tableau attached) formerly belonged to Lacordaire; it bears the following note in Lacordaire's handwriting: "Cet exemplaire a appartenu à Olivier et a été acheté, f. 14, à sa vente en 1847. Il l'avait reçu de Bonelli, comme indique la suscription en tête de la seconde partie." This quite confirms my view that the "Tableau" was annexed to the separates of his work which Bonelli distributed among his entomological friends.